

**RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER**  
**SYLLABUS FOR SCREENING TEST FOR THE POST OF**  
**ASSISTANT PROFESSOR (Super Speciality)**  
**PAEDIATRICS GASTROENTEROLOGY**  
**MEDICAL EDUCATION DEPARTMENT**

**1. Basic Sciences-**

- 1 Gastrointestinal mucosal immunology and mechanism of inflammation
- 2 Basic aspects of digestion and absorption
- 3 Bile acid physiology and alteration in entero hepatic circulation
- 4 Disorder of Copper metabolism

**2. Esophagus-**

- 1 Anatomy, embryology, congenital anomalies of esophagus.
- 2 Normal motility and development of the esophageal neuroenteric system
- 3 Gastro esophageal reflux
- 4 Toxic and traumatic injuries of esophagus

**3. Stomach and Duodenum-**

- 1 Anatomy, embryology and congenital anomalies of stomach and duodenum
- 2 H Pylori and peptic ulcer disease
- 3 Nausea, vomiting and pyloric stenosis
- 4 Gastric polyps and neoplasm

**4. Small Intestine-**

- 1 Anatomy and Physiology of Small Intestine and Large Intestine
- 2 Functional gastrointestinal disorders
- 3 Celiac disease
- 4 Allergic and eosinophilic gastrointestinal disease
- 5 Chronic diarrhea
- 6 Enteric Parasites
- 7 Gastrointestinal manifestation of immune deficiency
- 8 Neonatal necrotizing enterocolitis

**5. Large Intestine-**

- 1 Crohn's Disease
- 2 Ulcerative Colitis
- 3 Polyposis syndromes
- 4 Neoplasms of Gastrointestinal tract
- 5 Hirschsprungs Disease
- 6 Imperforated anus
- 7 Intestinal obstruction

**6. Liver-**

- 1 Developmental anatomy and Physiology of liver and bile ducts
- 2 Neonatal hepatitis
- 3 Cholestatic liver diseases
- 4 Mitochondrial hepatopathies: disorder of fatty acid oxidation and fatty acid chain
- 5 Non alcoholic fatty liver disease
- 6 Acute liver failure

- 7 Autoimmune liver disease
- 8 Drug induced liver disease
- 9 Metabolic liver disease
- 10 Complications and management of Chronic liver disease
- 11 Liver diseases in systemic illness
- 12 Viral infections of liver
- 13 Liver transplant

### **7. Biliary Tract-**

- 1 Disorder of intrahepatic bile ducts
- 2 Biliary atresia
- 3 Choledochal cyst and other biliary disorders
- 4 Bile acid synthesis and metabolism

### **8. Pancreas-**

- 1 Acute and Chronic Pancreas
- 2 Cystic fibrosis
- 3 Hereditaries and acquired pancreatic disorders
- 4 Pancreatic tumors

### **9. Endoscopy-**

- 1 Upper gastrointestinal bleeding
- 2 Lower gastrointestinal bleeding
- 3 Endoscopic retrograde cholangio and pancreaticography
- 4 Interventional endoscopy : Recent innovation

### **10. Imaging-**

- 1 Crossectional imaging of abdominal masses: Liver, Pancreas and Spleen
- 2 Interventional gastrointestinal radiography
- 3 Radionuclide Scintigraphy

### **11. Miscellaneous-**

- 1 Statistics and interpretation of screening and diagnostic tests
- 2 Recent advances in Paediatric Gastroenterology
- 3 Gastrointestinal manometry
- 4 Liver biopsy interpretation
- 5 Small and large intestinal biopsy interpretation
- 6 Nutritional assessment
- 7 Enteral and Parental nutrition
- 8 Failure to thrive
- 9 Abdominal tuberculosis

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#### **Pattern of Question Papers:**

1. **Objective Type Paper**
2. **Maximum Marks: 180**
3. **Number of Questions: 180**
4. **Duration of Paper : Three Hours**
5. **All Questions carry equal marks**
6. **Medium of Screening Test: English**
7. **There will be Negative Marking**  
(1/3 part of the mark(s) of each question will be deducted for each wrong answer)